

Life Sciences at NSLS-II. Wayne A. Hendrickson, NSLS-II Project, Brookhaven National Laboratory, Upton, NY 11973 USA, and Howard Hughes Medical Institute, Department of Biochemistry and Molecular Biophysics, Columbia University, New York, NY 10032, USA.

The National Synchrotron Light Source – II (NSLS-II) is designed to produce x-rays with unrivaled brightness for a synchrotron source. This machine is specified to meet advanced needs in the physical sciences for x-ray beams at as small as 1 nanometer spatial resolution and 0.1 meV energy resolution, but NSLS-II will also provide unique opportunities for the life sciences. Beamlines are being planned for diverse biological applications, including crystallography, x-ray scattering, imaging and spectroscopy. Microbeam diffraction experiments will be facilitated. NSLS-II will replace the existing NSLS and it is scheduled to be operational by mid 2015.